PLAT
Recombinant Human TPA, Active Single Chain

Catalog No.	CRT170B CRT170C	**Quantity:**	100 µg 1 mg

Alternate Names: Tissue-type plasminogen activator, t-PA, t-plasminogen activator, tPA

Description: Recombinant human Tissue Plasminogen Activator (tPA) is fully active, > 85% single chain, synthesized from cDNA from a human melanoma cell line. TPA is a secreted serine protease which converts the proenzyme Plasminogen to Plasmin, a fibrinolytic enzyme. tPA is synthesized as a single chain which is cleaved by Plasmin to a two chain disulfide linked protein. This enzyme plays a role in cell migration and tissue remodeling. Increased enzymatic activity causes hyperfibrinolysis, which manifests as excessive bleeding; decreased activity leads to hypofibrinolysis which can result in thrombosis or embolism.

Gene ID: 5327

UniProt ID: P00750

Concentration: ≥ 2.0 mg/ml, lot specific

Source: CHO cells

Molecular Weight: 70 kDa, apparent by SDS-PAGE, (527 aa)

Formulation: 0.4 M HEPES, 0.1 M NaCl, pH 7.4

Purity: > 95% by SDS-PAGE analysis

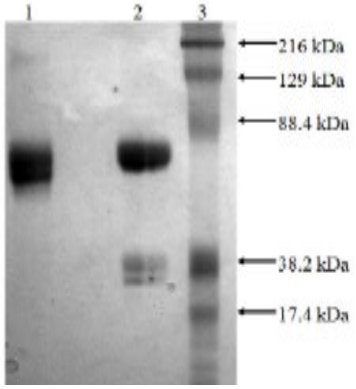
Extinction Coefficient: $E^{0.1\%}_{280nm}$ = 1.9

Biological Activity: Recombinant Human tPA is fully active, >85% single chain.

Specific Activity: ~ 5 x 10^5 IU/mg, lot specific (Relative to WHO International Standard for Human Recombinant Tissue Plasminogen Activator, NIBSC 98/714)

Storage & Stability: Upon receipt, store at -80 °C. Upon initial thawing, prepare aliquots of stock solution and store at -80 °C for up to one year. **Avoid repeated freeze-thaw cycles.**

1. 3µg non-reduced, 2. 3µg reduced, 3. MW Standards



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